SEQUENCE LISTING

- (1) GENERAL INFORMATION:
 - (i) APPLICANT: Lee, Jong Y.
 - (ii) TITLE OF INVENTION: PURIFIED HUMAN ERYTHROPOIETIN RECEPTOR PROTEIN FRAGMENT AND ANTIBODIES DERIVED THEREFROM
 - (iii) NUMBER OF SEQUENCES: 4
 - (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Fish & Richardson P.C.
 - (B) STREET: 120 Sixth South Street, Suite 2500
 - (C) CITY: Minneapolis
 - (D) STATE: MN
 - (E) COUNTRY: USA
 - (F) ZIP: 55402
 - (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
 - (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER: US 08/106,815
 - (B) FILING DATE: 16-AUG-1993
 - (C) CLASSIFICATION:
 - (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Ellinger, Mark S.
 - (B) REGISTRATION NUMBER: 34,812
 - (C) REFERENCE/DOCKET NUMBER: 07004/002002
 - (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: 612/335-5070 (B) TELEFAX: 612/288-9696
- (2) INFORMATION FOR SEQ ID NO:1:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 23 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: synthetic DNA
 - (iii) HYPOTHETICAL: NO
 - (iv) ANTI-SENSE: NO
 - (ix) FEATURE:
 - (A) NAME/KEY: BamH1 linker at 5' end followed by sequence for amino acids 25 through 29 of the full length human EpoR protein. Forward primer for Sequence ID No. 2.
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

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TTGGATCC GCG CCC CCG CCT AAC
Ala Pro Pro Pro Asn
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- (2) INFORMATION FOR SEQ ID NO:2:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 22 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: synthetic DNA
 - (iii) HYPOTHETICAL: NO
 - (iv) ANTI-SENSE: NO
 - (ix) FEATURE:
 - (A) NAME/KEY: EcoR1 linker followed by sequence complementary to coding sequence for amino acids 226 through 222 of full length human EpoR protein. Reverse primer for Sequence ID No. 1.
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

TGAATTCGGG GTCCAGGTCG CT

22

- (2) INFORMATION FOR SEQ ID NO:3:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 18 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: other nucleic acid
 - (iii) HYPOTHETICAL: NO
 - (iv) ANTI-SENSE: NO
 - (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
 - (vii) IMMEDIATE SOURCE:
 - (B) CLONE: pGEX-2T, Pharmacia (Mechanicsburg, PA)
 - (ix) FEATURE:
 - (A) NAME/KEY: Thrombin Cleavage Site in plasmid vector pGEX-2T.
 - (x) PUBLICATION INFORMATION:
 - (A) AUTHORS: Smith, D.B.

Johnson, K.S.

(B) TITLE: Single-step purification of polypeptides

expressed in Escherichia coli as fusions with glutathi ne-S-transferase.

- (C) JOURNAL: Gene
- (D) VOLUME: 67
- (F) PAGES: 31-40

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:	
CTG GTT CCG CGT GGA TCC Leu Val Pro Arg Gly Ser 10	18
(2) INFORMATION FOR SEQ ID NO:4:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1527 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(iii) HYPOTHETICAL: NO	
(iv) ANTI-SENSE: NO	
<pre>(x) PUBLICATION INFORMATION: (A) AUTHORS: Winklemann, J.C. (C) JOURNAL: Blood (D) VOLUME: 76 (E) ISSUE: 1 (F) PAGES: 24-30 (G) DATE: 1990</pre>	
(x) PUBLICATION INFORMATION:	
(A) AUTHORS: Jones, S.S. (C) JOURNAL: Blood	
(D) VOLUME: 76 (E) ISSUE: 1	
(F) PAGES: 31-35 (G) DATE: 1990	
(x) PUBLICATION INFORMATION:(A) AUTHORS: Noguchi, C.T.	•
(C) JOURNAL: Blood (D) VOLUME: 78	
(E) ISSUE: 10 (F) PAGES: 2548-2556	
(G) DATE: 1991	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:	40
ATG GAC CAC CTC GGG GCG TCC CTC TGG CCC CAG GTC GGC TCC CMet Asp His Leu Gly Ala Ser Leu Trp Pro Gln Val Gly Ser Leu 10 15 20	TT TGT 48 eu Cys
CTC CTG CTC GCT GGG GCC GCC TGG GCG CCC CCG CCT AAC CTC CC	CG GAC 96
Leu Leu Leu Ala Gly Ala Ala Trp Ala Pro Pro Pro Asn Leu Pro 25 30 35	• • • • • • • • • • • • • • • • • • • •
CCC AAG TTC GAG AGC AAA GCG GCC TTG CTG GCG GCC CGG GGG CC	CC GAA 144
Pro Lys Phe Glu Ser Lys Ala Ala Leu Leu Ala Ala Arg Gly P: 40 45 50	ro Glu
GAG CTT CTG TGC TTC ACC GAG CGG TTG GAG GAC TTG GTG TGT TGGLU Leu Leu Cys Phe Thr Glu Arg Leu Glu Asp Leu Val Cys Ph	rc TGG 192 he Trp
55 60 65	70
GAG GAA GCG GCG AGC GCT GGG GTG GGC CCG GGC AAC TAC AGC TG Glu Glu Ala Ala Ser Ala Gly Val Gly Pro Gly Asn Tyr Ser Pi	he Ser
75 80	85

(G) DATE: 1988

TAC Tyr	CAG Gln	CTC Leu	GAG Glu 90	GAT Asp	GAG Glu	CCA Pro	TGG Trp	AAG Lys 95	CTG Leu	TGT Cys	CGC Arg	CTG Leu	CAC His 100	CAG Gln	GCT Ala	288
CCC Pro	ACG Thr	GCT Ala 105	CGT Arg	GGT Gly	GCG Ala	GTG Val	CGC Arg 110	TTC Phe	TGG Trp	TGT Cys	TCG Ser	CTG Leu 115	CCT Pro	ACA Thr	GCC Ala	336
GAC Asp	ACG Thr 120	TCG Ser	AGC Ser	TTC Phe	GTG Val	CCC Pro 125	CTA Leu	GAG Glu	TTG Leu	CGC Arg	GTC Val 130	ACA Thr	GCA Ala	GCC Ala	TCC Ser	384
GGC Gly 135	GCT Ala	CCG Pro	CGÀ Arg	TAT Tyr	CAC His 140	CGT Arg	GTC Val	ATC Ile	CAC His	ATC Ile 145	AAT Asn	GAA Glu	GTA Val	GTG Val	CTC Leu 150	432
CTA Leu	GAC Asp	GCC Ala	CCC Pro	GTG Val 155	GGG Gly	CTG Leu	GTG Val	GCG Ala	CGG Arg 160	TTG Leu	GCT Ala	GAC Asp	GAG Glu	AGC Ser 165	GGC	480
CAC His	GTA Val	GTG Val	TTG Leu 170	CGC Arg	TGG Trp	CTC Leu	CCG Pro	CCG Pro 175	CCT Pro	GAG Glu	ACA Thr	CCC Pro	ATG Met 180	ACG Thr	TCT Ser	528
		CGC Arg 185														576
GTA Val	CAG Gln 200	AGG Arg	GTG Val	GAG Glu	ATC Ile	CTG Leu 205	GAG Glu	GGC Gly	CGC Arg	ACC Thr	GAG Glu 210	TGT	GTG Val	CTG Leu	AGC Ser	624
AAC Asn 215	CTG Leu	CGG Arg	GGC	CGG Arg	ACG Thr 220	CGC Arg	TAC Tyr	ACC Thr	TTC Phe	GCC Ala 225	GTC Val	CGC Arg	GCG Ala	CGT Arg	ATG Met 230	672
		CCG Pro														720
TCG Ser	CTG Leu	CTG Leu	ACG Thr 250	CCT Pro	AGC Ser	GAC Asp	CTG Leu	GAC Asp 255	CCC Pro	CTC Leu	ATC Ile	CTG Leu	ACG Thr 260	CTC Leu	TCC Ser	768
		CTC Leu 265														816
TCC Ser	CAC His 280	CGC Arg	CGG Arg	GCT Ala	CTG Leu	AAG Lys 285	CAG Gln	AAG Lys	ATC Ile	TGG Trp	CCT Pro 290	GGC Gly	ATC Ile	CCG Pro	AGC Ser	864
		AGC Ser														912
		TGG Trp														960
ACC Thr	CCC Pro	TTC Phe	ACG Thr 330	GAG Glu	GAC Asp	CCA Pro	CCT Pro	GCT Ala 335	TCC Ser	CTG Leu	GAA Glu	GTC Val	CTC Leu 340	TCA Ser	GAG Glu	1008

CGC Arg	TGC Cys	TGG Trp 345	GGG Gly	ACG Thr	ATG Met	CAG Gln	GCA Ala 350	GTG Val	GAG Glu	CCG Pro	GGG Gly	ACA Thr 355	GAT Asp	GAT Asp	GAG Glu	1056	
GGC	CCC Pro 360	CTG Leu	CTG Leu	GAG Glu	CCA Pro	GTG Val 365	GGC Gly	AGT Ser	GAG Glu	CAT His	GCC Ala 370	CAG Gln	GAT Asp	ACC Thr	TAT Tyr	1104	
CTG Leu 375	GTG Val	CTG Leu	GAC Asp	AAA Lys	TGG Trp 380	TTG Leu	CTG Leu	CCC Pro	CGG Arg	AAC Asn 385	CCG Pro	CCC Pro	AGT Ser	GAG Glu	GAC Asp 390	1152	
CTC Leu	CCA Pro	GGG Gly	CCT Pro	GGT Gly 395	GGC Gly	AGT Ser	GTG Val	GAC Asp	ATA Ile 400	GTG Val	GCC Ala	ATG Met	GAT Asp	GAA Glu 405	GLY	1200	l
TCA Ser	GAA Glu	GCA Ala	TCC Ser 410	TCC Ser	TGC Cys	TCA Ser	TCT Ser	GCT Ala 415	TTG Leu	GCC Ala	TCG Ser	AAG Lys	CCC Pro 420	AGC Ser	CCA Pro	1248	ř
GAG Glu	GGA Gly	GCC Ala 425	TCT Ser	GCT Ala	GCC Ala	AGC Ser	TTT Phe 430	GAG Glu	TAC Tyr	ACT Thr	ATC Ile	CTG Leu 435	GAC Asp	CCC Pro	AGC Ser	1296	j
TCC Ser	CAG Gln 440	Leu	TTG Leu	CGT Arg	CCA Pro	TGG Trp 445	ACA Thr	CTG Leu	TGC Cys	CCT Pro	GAG Glu 450	CTG Leu	CCC Pro	CCT Pro	ACC Thr	1344	ļ
CCA Pro 455	Pro	CAC His	CTA Leu	AAG Lys	TAC Tyr 460	CTG Leu	TAC Tyr	CTT Leu	GTG Val	GTA Val 465	Ser	GAC Asp	TCT Ser	GGC	ATC Ile 470	1392	2
TCA Ser	ACT Thr	GAC Asp	TAC Tyr	AGC Ser 475	Ser	GGG Gly	GAC Asp	TCC Ser	CAG Gln 480	Gly	GCC Ala	CAA Gln	GGG	GGC Gly 485	TTA Leu	1440)
TCC Ser	GAT Asp	GGC Gly	CCC Pro 490	Tyr	TCC Ser	AAC Asn	CCT Pro	TAT Tyr 495	GAG Glu	AAC Asn	AGC Ser	CTT Leu	ATC Ile 500	CCA Pro	GCC Ala	1488	3
GCT Ala	GAG Glu	CCT Pro 505	Leu	CCC Pro	CCC Pro	AGC Ser	TAT Tyr 510	Val	GCT Ala	TGC Cys	TCT Ser	T	AG			1527	7

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